

Monitored current range I(mn)

Type range A

Type range B

Type range C

<u>Current Leakage Detection unit for AC/DC power</u> systems - type: PDU4865

General description:

The CL Detection unit is a completely isolated current measuring system using a flux-gate principle. By measuring the differance between the in- and out-going current of a power supply, a leakage current can be detected. Therefore the power cords must be lead through the input gate of the unit. A leakage current is guarded by an amplifier/tripper that triggers a relay and a red LED indicates the alarm status. A green LED indicates that the power is on.

An alarming value is set with a potentiometer within a range

An alarming value is set with a potentiometer within a range from 10 ...100 %. In case of an alarm or power fail, the relay is deactivated.

The relais can only be energized when the power is on and/or a reset is made. A reset can be made with the reset button on the unit, but there is also an external connection.

I (nom) = 65 mAU(nom) = $25 \text{Vdc} (\pm 10\%)$

Momentarely to the 0 volt power -10 + 70 °C

Depends on the transducer type 0...100mA

0...200mA 0...400mA

1000/

Setpoint alarm range (tripper) 10...100%

Alarm Relais Normaly Energized
Contacts Changeover (protected)
Max. Ratings 30Vdc / 4A

Alarm action Relay de-energizes
Reaction time ± 200msec.

Indications

Reset input

Tamb

Power on Green LED
Overrange (alarm) Red LED

Housing DIN-rail enclosure
Dimensions (mm.) 53.0x50.3x86.7 (WxHxD)
Material Polycarbonate (UL94-V0)

Isolation characteristics			
Vb Nominal Voltage	150 V(rms) with IEC 61010-1 standard + (1)		
Vb Nominal Voltage	250V (rms) with EN 50178 standard + (2)		
Vd Rms Voltage for AC isolation test, $50/60$ Hz, $1mn$ 2.5 kV Ve Rms Voltage for partial discharge extinction @ $10pC$ >1.2 kV Vw Impulse withstand voltage $1.2/50\mu s$ 6 kV If insulation cable is used for the primary circuit, the voltage category could be improved with the following table:			
Cable insulation (p)imary	С	Category	
HAR 03	3	800V CAT III	
HAR 05	4	00V CAT III	
HAR 07	5	000V CAT III	
1) Conditions			_
Single insulation			
 Over voltage category III 			
 Pollution degree 2 			
 Heterogeneous field 			
2) Conditions			
 Reinforced insulation 			
 Over voltage category III 			
► Pollution degree 2			
 Heterogeneous field 			
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